

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-5. (canceled)

6. (currently amended) ~~A system according to claim 5,~~
A wavelength-division multiplexed optical transmission system for
transmitting an optical wavelength-division multiplexed signal
using frames via an optical fiber transmitting line, comprising:

a transmitter for converting an inputted electric
signal into the optical wavelength-division multiplexed signal
and transmitting the optical wavelength-division multiplexed
signal;

a receiver for receiving said transmitted optical
wavelength-division multiplexed signal;

a frame phase updating unit for mutually differing
transmitting frame phases between at least two or more wavelength
channels among a plurality of wavelength channels which are
transmitted through a same optical fiber transmitting line;

a frame configuration unit for configuring frames of
said wavelength channels from a signal to be transmitted to said
optical fiber transmitting line and selecting an output signal
frame phrase itself at random; and

a device for reducing mutual interference among a plurality of wavelength channel frames which are transmitted through said same optical fiber transmitting line,

wherein said frame phase updating unit comprises:

a phase shifter for shifting a phase by a phase delay quantity which is set on the basis of a reference frame phase that is inputted externally; and

a frame phase updating circuit for setting the phase shifted by said phase shifter to an output signal frame phase itself, and wherein

said phase shifter presets it to cause said phase delay quantity to mutually differ the transmitting frame phases of a wavelength channel group which is transmitted through said same optical fiber transmitting line.

7. (original) A system according to claim 6, further comprising a controller for monitoring and setting the transmitting frame phases of the wavelength channels, wherein

said controller sets the frame phase of a device for configuring the frames of said wavelength channels so as to mutually differ the transmitting frame phases among the wavelength channel group which is transmitted through said same optical fiber transmitting line.

8. (original) A system according to claim 7, wherein said wavelength-division multiplexed optical transmission system sets a delay quantity of the transmitting frame phases of the

wavelength channels corresponding to the control information.

9-19. (canceled)